



Noishield® and Slimshield® Acoustic Louvres

- Guaranteed, certified performance
- Aerodynamic, for maximum energy saving
- Complete design and installation service
- Applications include inlet/exhaust openings, screens, barriers and enclosures
- BS EN ISO 9001:2000 quality registered



acoustic louvres

A WORLD LEADER

IAC is Europe's leading manufacturer of rugged, high-performance acoustic louvres and has completed thousands of installations worldwide.

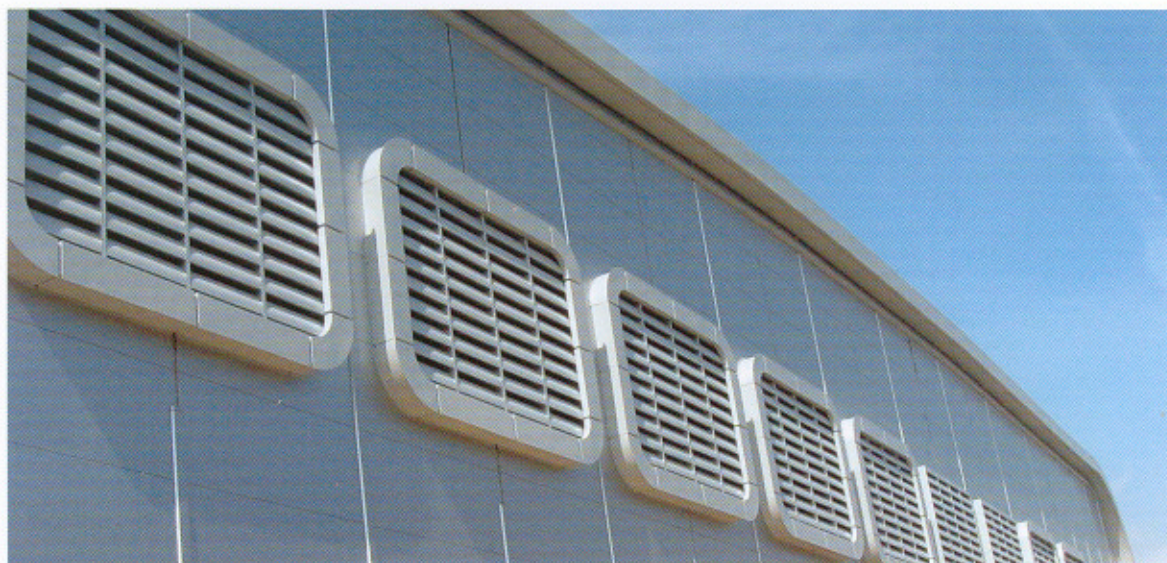
Applications include:

- Fresh Air Intakes for Ventilation Systems
- Mechanical Equipment Screens and Penthouses
- Noise Barriers
- Process Air Intakes
- Cooling Tower Inlet Silencers and Screens



Model 'R' acoustic louvres in IAC Noishield® acoustic enclosures

IAC can provide louvre solutions to combat environmental noise problems in mixed commercial/residential areas, carrying out all relevant noise surveys and acoustic analysis.



Model 'R' louvres reduce noise emissions from a recycling plant in a residential area

CERTIFIED PERFORMANCE

NOISHIELD® LOUVRES - sound transmission loss dB

Octave Band Centre Frequency, Hz	Louvre Depth (mm)	1	2	3	4	5	6	7	8
		63	125	250	500	1K	2K	4K	8K
Model R	305	5	7	11	12	13	14	12	9
Model 2R	610	6	12	15	21	24	27	25	20
Model LP	305	4	5	8	9	12	9	7	6
Model 2LP	610	5	8	12	16	22	18	15	14

SLIMSHIELD® LOUVRES - sound transmission loss dB

Octave Band Centre Frequency, Hz	Louvre Depth (mm)	1	2	3	4	5	6	7	8
		63	125	250	500	1K	2K	4K	8K
SL-100	102	5	4	5	6	9	13	14	13
SL-150	152	6	6	8	10	14	18	16	15
SL-300	300	6	7	10	12	18	18	14	13
SL-600	600	7	9	12	24	31	33	29	30

PRODUCT RANGE

- **Noishield®**
Aerofoil blade
Model R and LP:
305 mm deep
Model 2R and 2LP:
610mm deep
- **Slimshield®**
Linear blade:
102mm deep
152mm deep
300mm deep
or double banked:
600 mm deep

STYLISH LOUVRE SCREENS AND BARRIERS

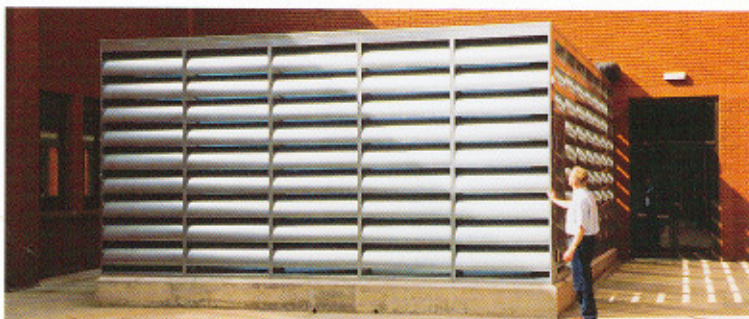
Enclosures, screens and barriers can be created using all IAC acoustic louvre types. When required, IAC will supply all necessary supporting steelwork and we also offer a full installation service.

BARRIER ATTENUATION

Theoretical attenuation, provided by solid barriers, is shown on the graph, below right. In practice, the maximum barrier attenuation cannot be greater than the louvre transmission loss (TL).



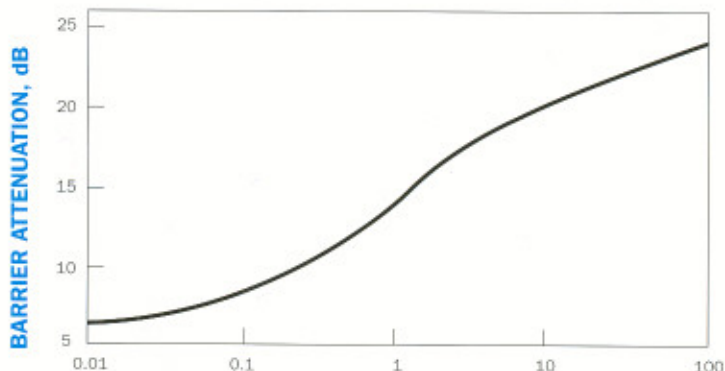
Model 'R' with radius frame section



Three-sided mechanical plant screen created from galvanised steel Noishield® Louvres

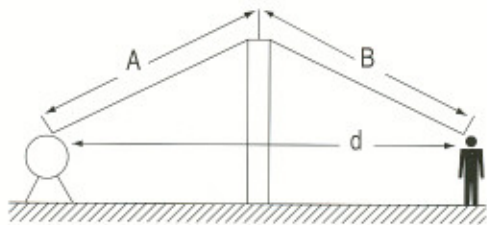


IAC Slimshield® louvre barrier at a retail site



$$\text{FRESNEL NUMBER} = N = \frac{2\delta}{\lambda}$$

WHERE: λ = Wavelength of Sound $\delta = A + B - d$



Sound absorptive surfaces reduce reverberant build-up between parallel barriers and other reflective surfaces and increase the ability of barriers to attenuate noise.

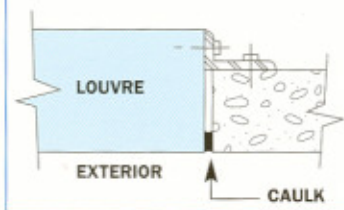
INSTALLATION

Typical details are shown here (right) and certified dimension drawings are provided with each louvre. For large louvre banks IAC will provide installation drawings and a full installation service, if required.

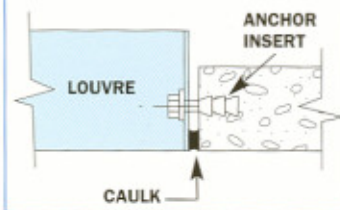
FINISHES AVAILABLE

- Galvanised mild steel
- Aluminium
- Stainless steel
- Polyester powder coated (PPC)
- Vinyl coated steel
- Syntha Pulvin

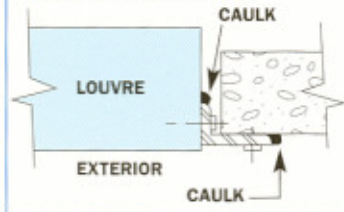
FLUSH EXTERIOR



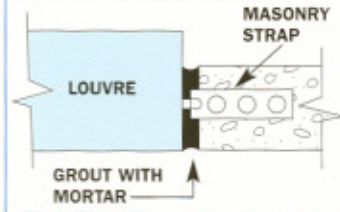
CONCRETE INSERTS



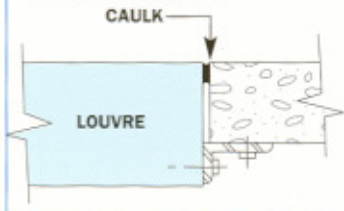
FLANGED EXTERIOR



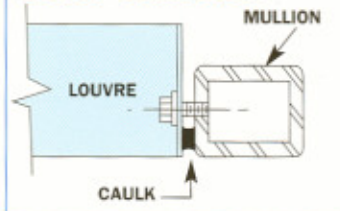
MASONRY ANCHORS



FLUSH INTERIOR



BOLTED CONNECTION



Slimshield® 300 louvre enclosure



Model 'R' plantroom ventilation acoustic louvres



Double leaf Noishield® louvre door



IAC is a BS EN
ISO 9001 quality
registered company

CREATE YOUR OWN LOOK

IAC curved or linear blade louvre styles can be used to match perfectly the overall scale and aesthetics of a new building.



Acoustic prefabricated natural ventilation outlet

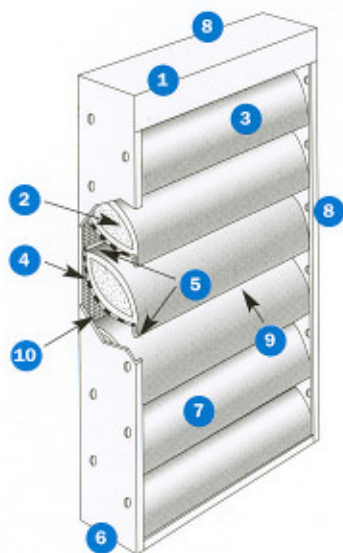


Slimshield® SL 300 acoustic louvres



Model 'R' IAC louvres with matching access doors

FEATURES AND BENEFITS OF IAC NOISHIELD® AND SLIMSHIELD® LOUVRES



- 1 Rugged all-steel galvanised construction. Stainless steel, aluminium and other materials also available.
- 2 Inert, vermin-proof, weather-rated, non-combustible acoustic fill.
- 3 Aerofoil shaped splitter blade (type R and LP) for maximum noise reduction with minimum pressure drop.
- 4 Perforated splitter underside for maximum sound absorption.
- 5 Weather stop inhibits rain/snow entry.
- 6 Available in a variety of depths, in both single and double banked versions.
- 7 Available in a variety of durable, attractive finishes, e.g. vinyl coated steel, polyester powder paint, mill finish aluminium, Syntha Pulvin, galvanised and stainless steel.
- 8 Modular sizes enable assembly of rectilinear louvre "walls" of almost any size.
- 9 Louvre blade orientation blocks horizontal line of site, enhancing both aesthetics and acoustic performance.
- 10 Detachable galvanised bird screen fitted as standard on rear of louvre. Insect screens also available.

Rooftop plant screen
Model 'R' Noishield Louvre





Pictures above and below show IAC's production plant at its European Headquarters in Winchester, UK

ABOUT US

Established in 1949, IAC is the world's largest provider of noise and acoustic control products, structures and test facilities. Employing over 650 people, the company has major research and development centres in the USA and France and manufacturing plants on five separate sites in the UK, France, Denmark, the USA and Mexico. IAC's European Headquarters are located in Winchester, UK, approximately 110km (70 miles) from London.

In addition to the facilities directly owned and operated by the company, IAC works in close partnership with several other manufacturing organisations, notably in eastern Europe. It also has a large network of technical sales engineers, agents and distributors, offering advice and assistance to customers around the world. Several of these manufacture IAC products under license.



THE IAC PRODUCT RANGE

IAC offers new and imaginative solutions to an extraordinarily wide range of noise pollution and sound quality problems. For example, we create facilities for testing jet engines and developing quieter motor vehicles. We build TV and radio studios and install soundproof rooms in hospitals for hearing testing (audiology). We shroud noisy plant and machinery with special acoustic enclosures, build road barriers, silence air conditioning systems and combat the noise emissions of large, powerful gas turbine engines. We install partitions in hotel function rooms and provide school children with the special facilities they need to learn foreign languages and practice playing their musical instruments. And our acoustic doors and windows can be found in almost every type of building you can think of.

**making
the world a
quieter place**



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